

**DECLARATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or the below named inventors are the original, first and joint inventors (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled "**METHOD OF USING HIGH YIELDING SPECTRA SCATTEROMETRY MEASUREMENTS TO CONTROL SEMICONDUCTOR MANUFACTURING PROCESSES, AND SYSTEM FOR ACCOMPLISHING SAME**" the Specification of which:

☒ is attached hereto.  
☐ was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability of the subject matter claimed in this application, as "materiality" is defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent, United States provisional application(s), or inventor's certificate listed below and have also identified below any foreign application for patent, United States provisional application, or inventor's certificate having a filing date before that of the application on which priority is claimed:

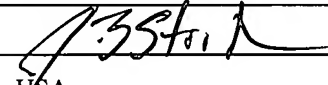
PRIORITY APPLICATION(S)			Priority Claimed
(Number)	(Country)	(Date Filed)	Yes/No
(Number)	(Country)	(Date Filed)	Yes/No

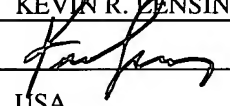
I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose all information known to me to be material to patentability of the subject matter claimed in this application, as "materiality" is defined in Title 37, Code of Federal Regulations, § 1.56, which become available between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	(Status)
(Application Serial No.)	(Filing Date)	(Status)

I hereby direct that all correspondence and telephone calls be addressed to J. Mike Amerson, Williams, Morgan & Amerson, P.C., 7676 Hillmont, Suite 250, Houston, Texas 77040, (713) 934-4055.

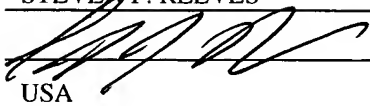
I HEREBY DECLARE THAT ALL STATEMENTS MADE OF MY OWN KNOWLEDGE ARE TRUE AND THAT ALL STATEMENTS MADE ON INFORMATION AND BELIEF ARE BELIEVED TO BE TRUE; AND FURTHER THAT THESE STATEMENTS WERE MADE WITH THE KNOWLEDGE THAT WILLFUL FALSE STATEMENTS AND THE LIKE SO MADE ARE PUNISHABLE BY FINE OR IMPRISONMENT, OR BOTH, UNDER SECTION 1001 OF TITLE 18 OF THE UNITED STATES CODE AND THAT SUCH WILLFUL FALSE STATEMENTS MAY JEOPARDIZE THE VALIDITY OF THE APPLICATION OR ANY PATENT ISSUED THEREON.

Inventor's Full Name: JAMES BROC STIRTON  
 Inventor's Signature:   
 Country of Citizenship: USA Date: 2/25/02  
 Residence Address: (street, number, city, state, and/or country) 3302 GRASSHOPPER DRIVE  
AUSTIN, TX 78748  
 Post Office Address: Same  
 (if different from above)

Inventor's Full Name: KEVIN R. LENSING  
 Inventor's Signature:   
 Country of Citizenship: USA Date: 02/25/02  
 Residence Address: (street, number, city, state, and/or country) 6029 MESA VERDE CIRCLE  
AUSTIN, TX 78749  
 Post Office Address: Same  
 (if different from above)

Inventor's Full Name: HOMI NARIMAN  
 Inventor's Signature: \_\_\_\_\_  
 Country of Citizenship: INDIA Date: \_\_\_\_\_  
 Residence Address: (street, number, city, state, and/or country) 6501 SANS SOUCI COVE  
AUSTIN, TX 78759  
 Post Office Address: Same  
 (if different from above)

Inventor's Full Name: STEVEN P. REEVES

Inventor's Signature: 

Country of Citizenship: USA Date: 2-25-02

Residence Address: (street, number, city, state, and/or country) 10425 STEAMBOAT DRIVE  
AUSTIN, TX 78749

Post Office Address: Same  
(if different from above)

2000.092400/TT5002

**DECLARATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or the below named inventors are the original, first and joint inventors (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled "**METHOD OF USING HIGH YIELDING SPECTRA SCATTEROMETRY MEASUREMENTS TO CONTROL SEMICONDUCTOR MANUFACTURING PROCESSES, AND SYSTEM FOR ACCOMPLISHING SAME**" the Specification of which:

☒ is attached hereto.  
☐ was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability of the subject matter claimed in this application, as "materiality" is defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent, United States provisional application(s), or inventor's certificate listed below and have also identified below any foreign application for patent, United States provisional application, or inventor's certificate having a filing date before that of the application on which priority is claimed:

PRIORITY APPLICATION(S)			Priority Claimed
(Number)	(Country)	(Date Filed)	Yes/No
(Number)	(Country)	(Date Filed)	Yes/No

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose all information known to me to be material to patentability of the subject matter claimed in this application, as "materiality" is defined in Title 37, Code of Federal Regulations, § 1.56, which become available between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	(Status)
(Application Serial No.)	(Filing Date)	(Status)

I hereby direct that all correspondence and telephone calls be addressed to J. Mike Amerson, Williams, Morgan & Amerson, P.C., 7676 Hillmont, Suite 250, Houston, Texas 77040, (713) 934-4055.

I HEREBY DECLARE THAT ALL STATEMENTS MADE OF MY OWN KNOWLEDGE ARE TRUE AND THAT ALL STATEMENTS MADE ON INFORMATION AND BELIEF ARE BELIEVED TO BE TRUE; AND FURTHER THAT THESE STATEMENTS WERE MADE WITH THE KNOWLEDGE THAT WILLFUL FALSE STATEMENTS AND THE LIKE SO MADE ARE PUNISHABLE BY FINE OR IMPRISONMENT, OR BOTH, UNDER SECTION 1001 OF TITLE 18 OF THE UNITED STATES CODE AND THAT SUCH WILLFUL FALSE STATEMENTS MAY JEOPARDIZE THE VALIDITY OF THE APPLICATION OR ANY PATENT ISSUED THEREON.

Inventor's Full Name: JAMES BROC STIRTON  
 Inventor's Signature: \_\_\_\_\_  
 Country of Citizenship: USA Date: \_\_\_\_\_  
 Residence Address: (street, number, city, state, and/or country) 3302 GRASSHOPPER DRIVE  
AUSTIN, TX 78748  
 Post Office Address: Same  
 (if different from above) \_\_\_\_\_

Inventor's Full Name: KEVIN R. LENSING  
 Inventor's Signature: \_\_\_\_\_  
 Country of Citizenship: USA Date: \_\_\_\_\_  
 Residence Address: (street, number, city, state, and/or country) 6029 MESA VERDE CIRCLE  
AUSTIN, TX 78749  
 Post Office Address: Same  
 (if different from above) \_\_\_\_\_

Inventor's Full Name: HORMUZDIAR E. NARIMAN  
 Inventor's Signature: H. E. Nariman.  
 Country of Citizenship: INDIA Date: 2/25/02  
 Residence Address: (street, number, city, state, and/or country) 10205 OPEN GATE DRIVE  
AUSTIN, TX 78726  
 Post Office Address: Same  
 (if different from above) \_\_\_\_\_

Inventor's Full Name: STEVEN P. REEVES

Inventor's Signature: \_\_\_\_\_

Country of Citizenship: USA Date: \_\_\_\_\_

Residence Address: (street, number, city, state, and/or country) 10425 STEAMBOAT DRIVE  
AUSTIN, TX 78749

Post Office Address: Same  
(if different from above)

2000.092400/TT5002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

JAMES BROC STIRTON

KEVIN R. LENSING

HOMI NARIMAN

STEVEN P. REEVES

§

§

§ Examiner: Unknown

§

§ Group Art Unit: Unknown

§

Serial No.: Unknown

§ Att'y Docket: 2000.092400/TT5002

§

Filed: Concurrently Herewith

§

§

For: METHOD OF USING HIGH YIELDING

§

SPECTRA SCATTEROMETRY

§

MEASUREMENTS TO CONTROL

§

SEMICONDUCTOR MANUFACTURING

§

PROCESSES, AND SYSTEM FOR

§

ACCOMPLISHING SAME

§

**POWER OF ATTORNEY**

Assistant Commissioner for Patents

Washington, D.C. 20231

Sir:

The undersigned, being the inventor named in the above-identified application, hereby revokes any previous Powers of Attorney and appoints:

Elizabeth A. Apperley, Reg. No. 36,428; Bradley Botsch, Reg. No. 34,552; Michael Caywood, Reg. No. 37,797; Daniel R. Collopy, Reg. No. 33,667; Paul S. Drake, Reg. No. 33,491; Rajendra Jaipershad, Reg. No. 44,168; Diana Roberts, Reg. No. 36,654; Richard J. Roddy, Reg. No. 27,688; and Harry A. Wolin, Reg. No. 32,638 of Advanced Micro Devices, Inc.; and

Danny L. Williams, Reg. No. 31,892; Terry D. Morgan, Reg. No. 31,181; J. Mike Amerson, Reg. No. 35,426; Kenneth D. Goodman, Reg. No. 30,460; Jeffrey A. Pyle, Reg. No. 34,904; Ruben S. Bains, Reg. No. 46,532; Steven Koon Hon Wong, Reg. No. 48,459; Scott F. Diring, Reg. No. 35,119; George J. Oehling, Reg. No. 40,471; Shelley P.M. Fussey, Reg. No. 39,458; Mark D. Moore, Reg. No. 42,903; Louis H. Iselin, Reg. No. 42,684; Raymund F. Eich, Reg. No. 42,508; Daren C. Davis, Reg. No. 38,425; and Stephanie A. Wardwell, Reg. No. 48,025 of Williams, Morgan & Amerson, P.C.,

as its attorney or agent so long as they remain with such firms, with full power of substitution and revocation, to prosecute the application, to make alterations and amendments therein, to transact all business in the Patent and Trademark Office in connection therewith, and to receive any Letters Patent, and for one year after issuance of such Letters Patent to file any request for a certificate of correction that may be deemed appropriate.

Please direct all communications as follows:

J. Mike Amerson  
WILLIAMS, MORGAN & AMERSON, P.C.  
7676 Hillmont, Suite 250  
Houston, Texas 77040  
(713) 934-7000

Signature: \_\_\_\_\_

JAMES BROC STIRTON

Date: \_\_\_\_\_

2/25/02

Signature:   
KEVIN R. LENSING

Date: 02/25/02

Signature: \_\_\_\_\_  
HOMI NARIMAN

Date: \_\_\_\_\_

Signature:   
STEVEN P. REEVES

Date: 2-25-02

2000092400TT5002



**THE**  
**NEW**  
**YORK**  
**PUBLIC**  
**LIBRARY**

[illegible]

Group Art Unit: Unknown

Att'y Docket: 2000.092400/TT5002

For: METHOD OF USING HIGH YIELDING  
SPECTRA SCATTEROMETRY  
MEASUREMENTS TO CONTROL  
SEMICONDUCTOR MANUFACTURING  
PROCESSES, AND SYSTEM FOR  
ACCOMPLISHING SAME

## Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
KEVIN R. LENSING

Date: \_\_\_\_\_

Signature: H. S. Nariman.  
HORMUZDIAR E. NARIMAN

Date: 2/25/02

Signature: \_\_\_\_\_  
STEVEN P. REEVES

Date: \_\_\_\_\_

20000225-236718007